

# WEST Search History

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DATE: Sunday, June 20, 2004

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L64	(vaughn, jr.in.)	67
<input type="checkbox"/>	L63	((vaughn, jr.in.) and ((magnetic adj resonance) or MRI or NMR) )	1
<input type="checkbox"/>	L62	((vaughn, jr.in.) and ((magnetic adj resonance) or MRI or NMR) )	0
<input type="checkbox"/>	L61	(("vaughn, jr.in.") and ((magnetic adj resonance) or MRI or NMR) )	0
<input type="checkbox"/>	L60	((vaughn.in.) and ((magnetic adj resonance) or MRI or NMR) )	52
<input type="checkbox"/>	L59	L58 and ((magnetic adj resonance) or MRI or NMR)	20
<input type="checkbox"/>	L58	tropp.in.	106
<input type="checkbox"/>	L57	L56 and (antenn\$3 with (segment or element or component or coil))	11
<input type="checkbox"/>	L56	L55 and ((magnetic adj resonance) or MRI or NMR)	98
<input type="checkbox"/>	L55	boskamp.in.	224
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L54	(5196797  5557247  6232779)!*[pn]	6
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L53	L52 and (antenn\$3 with (segment or element or component or coil))	20
<input type="checkbox"/>	L52	L51 and ((magnetic adj resonance) or MRI or NMR)	86
<input type="checkbox"/>	L51	bottomley.in.	572
<input type="checkbox"/>	L50	bottomly.in.	7
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L49	L48 and (pin-wheel or pinwheel or "pin wheel" or spoke or wheel or branch or radial\$3 or radius or radii)	51
<input type="checkbox"/>	L48	L47 and (substrate)	236
<input type="checkbox"/>	L47	L46 and ((magnetic adj resonance) or MRI or NMR)	558
<input type="checkbox"/>	L46	(brey.in. or withers.in. or wong.in.)	15036
<input type="checkbox"/>	L45	L44 and (antenn\$3 with (segment or element or component or coil))	1
<input type="checkbox"/>	L44	L43 and ((magnetic adj resonance) or MRI or NMR)	201
<input type="checkbox"/>	L43	srinivasan.in.	2568
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L42	L41 not L27	68
<input type="checkbox"/>	L41	L40 and (coupl\$4)	90
<input type="checkbox"/>	L40	L39 and (symmetry or symmetrical\$4)	121
<input type="checkbox"/>	L39	L38 and (radial\$3 or radius or radii)	331

<input type="checkbox"/>	L38	L26 and (antenn\$3 with (segment or element or component))	880
<input type="checkbox"/>	L37	L36 and (antenna or coil or probe)	110
<input type="checkbox"/>	L36	L25 and (umbrella)	302
<input type="checkbox"/>	L35	L26 and (umbrella)	3
<input type="checkbox"/>	L34	L27 not L29	53
<input type="checkbox"/>	L33	L29 not L31	25
<input type="checkbox"/>	L32	L31 and (antenn\$2 with element)	3
<input type="checkbox"/>	L31	L28 and L30	12
<input type="checkbox"/>	L30	L29 and (coupl\$4)	29
<input type="checkbox"/>	L29	L27 and (radial\$3 or radius or radii)	37
<input type="checkbox"/>	L28	L27 and (cycl\$5)	15
<input type="checkbox"/>	L27	L26 and ((symmetry or symmetrical\$4) with antenn\$2)	90
<input type="checkbox"/>	L26	L25 and (antenn\$2)	3300
<input type="checkbox"/>	L25	((magnetic adj resonance) or MRI or NMR)	174358
<input type="checkbox"/>	L24	4620155	47
<input type="checkbox"/>	L23	L22 not L8	68
<input type="checkbox"/>	L22	L21 and (coupl\$4)	90
<input type="checkbox"/>	L21	L20 and (symmetry or symmetrical\$4)	121
<input type="checkbox"/>	L20	L19 and (radial\$3 or radius or radii)	331
<input type="checkbox"/>	L19	L7 and (antenn\$3 with (segment or element or component))	880
<input type="checkbox"/>	L18	L17 and (antenna or coil or probe)	110
<input type="checkbox"/>	L17	L6 and (umbrella)	302
<input type="checkbox"/>	L16	L7 and (umbrella)	3
<input type="checkbox"/>	L15	L8 not L10	53
<input type="checkbox"/>	L14	L10 not L12	25
<input type="checkbox"/>	L13	L12 and (antenn\$2 with element)	3
<input type="checkbox"/>	L12	L9 and L11	12
<input type="checkbox"/>	L11	L10 and (coupl\$4)	29
<input type="checkbox"/>	L10	L8 and (radial\$3 or radius or radii)	37
<input type="checkbox"/>	L9	L8 and (cycl\$5)	15
<input type="checkbox"/>	L8	L7 and ((symmetry or symmetrical\$4) with antenn\$2)	90
<input type="checkbox"/>	L7	L6 and (antenn\$2)	3300
<input type="checkbox"/>	L6	((magnetic adj resonance) or MRI or NMR)	174358
<input type="checkbox"/>	L5	4620155	47
<input type="checkbox"/>	L4	L3 and ((magnetic adj resonance) or MRI or NMR)	23
<input type="checkbox"/>	L3	L1 and (antenna or probe or coil or resonat\$3 or conduct\$4 or segment\$4 or element\$4)	1280
<input type="checkbox"/>	L2	L1 and (antenna or probe or coil or resonat\$3)	365

L1 (pin-wheel or pinwheel or "pin wheel") 2456

END OF SEARCH HISTORY

## Hit List

**Clear** **Generate Collection** **Print** **Fwd Refs** **Bkwd Refs**  
**Generate OACS**

### Search Results - Record(s) 1 through 3 of 3 returned.

1. Document ID: US 6535084 B1

Using default format because multiple data bases are involved.

L13: Entry 1 of 3

File: USPT

Mar 18, 2003

US-PAT-NO: 6535084

DOCUMENT-IDENTIFIER: US 6535084 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method and apparatus for designing an RF coil assembly

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tropp; James S.	Berkeley	CA		

US-CL-CURRENT: 333/219; 324/318, 324/322

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [INPC](#) | [Drawings](#)

2. Document ID: US 6028429 A

L13: Entry 2 of 3

File: USPT

Feb 22, 2000

US-PAT-NO: 6028429

DOCUMENT-IDENTIFIER: US 6028429 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Composite MRI antenna with reduced stray capacitance

DATE-ISSUED: February 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Green; Charles	Holbrook	NY		
Votruba; Jan	Ridge	NY		
Eydelman; Gregory	West Hempstead	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322, 600/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	...	...	Claims	KM/C	Drawn/De
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3. Document ID: US 4620155 A

L13: Entry 3 of 3

File: USPT

Oct 28, 1986

US-PAT-NO: 4620155

DOCUMENT-IDENTIFIER: US 4620155 A

TITLE: Nuclear magnetic resonance imaging antenna subsystem having a plurality of non-orthogonal surface coils

DATE-ISSUED: October 28, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edelstein; William A.	Schenectady	NY		

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	...	...	Claims	KM/C	Drawn/De
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<a href="#">Clear</a>	<a href="#">Generate Collection</a>	<a href="#">Print</a>	<a href="#">Fwd Refs</a>	<a href="#">Bkwd Refs</a>	<a href="#">Generate OACS</a>
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Term	Documents
ELEMENT	2582460
ELEMENTS	2245255
ANTENN\$2	0
ANTENN	46
ANTENNA	258573
ANTENNAA	12
ANTENNAE	14377
ANTENNAI	1
ANTENNAJ	2
ANTENNAL	432
ANTENNAN	6
(L12 AND (ANTENN\$2 WITH ELEMENT)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3

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<a href="#">Generate OACS</a>				

Search Results - Record(s) 1 through 3 of 3 returned.

1. Document ID: US 6535084 B1

Using default format because multiple data bases are involved.

L32: Entry 1 of 3

File: USPT

Mar 18, 2003

US-PAT-NO: 6535084

DOCUMENT-IDENTIFIER: US 6535084 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Method and apparatus for designing an RF coil assembly

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tropp; James S.	Berkeley	CA		

US-CL-CURRENT: 333/219; 324/318, 324/322

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [KIN](#) | [Grant](#)

2. Document ID: US 6028429 A

L32: Entry 2 of 3

File: USPT

Feb 22, 2000

US-PAT-NO: 6028429

DOCUMENT-IDENTIFIER: US 6028429 A

\*\* See image for Certificate of Correction \*\*

TITLE: Composite MRI antenna with reduced stray capacitance

DATE-ISSUED: February 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Green; Charles	Holbrook	NY		
Votruba; Jan	Ridge	NY		
Eydelman; Gregory	West Hempstead	NY		
Damadian; Raymond V.	Woodbury	NY		

US-CL-CURRENT: 324/318; 324/322, 600/412

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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3. Document ID: US 4620155 A

L32: Entry 3 of 3

File: USPT

Oct 28, 1986

US-PAT-NO: 4620155

DOCUMENT-IDENTIFIER: US 4620155 A

TITLE: Nuclear magnetic resonance imaging antenna subsystem having a plurality of non-orthogonal surface coils

DATE-ISSUED: October 28, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edelstein; William A.	Schenectady	NY		

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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Term	Documents
ELEMENT	2582460
ELEMENTS	2245255
ANTENN\$2	0
ANTENN	46
ANTENNA	258573
ANTENNAA	12
ANTENNAE	14377
ANTENNAI	1
ANTENNAJ	2
ANTENNAL	432
ANTENNAN	6
(L31 AND (ANTENN\$2 WITH ELEMENT)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3

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### Search Results - Record(s) 1 through 1 of 1 returned.

1. Document ID: US 6177797 B1

Using default format because multiple data bases are involved.

L45: Entry 1 of 1

File: USPT

Jan 23, 2001

US-PAT-NO: 6177797

DOCUMENT-IDENTIFIER: US 6177797 B1

TITLE: Radio-frequency coil and method for resonance/imaging analysis

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Heights	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Frent	Review	Classification	Date	Reference	Claims	KINIC	Draw
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
SEGMENT	429811
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ELEMENT	2582460
ELEMENTS	2245255
COMPONENT	2160824
COMPONENTS	2431011
COIL	805739
COILS	257219
ANTENN\$3	0
ANTENN	46
ANTENNA	258573
(L44 AND (ANTENN\$3 WITH (SEGMENT OR ELEMENT OR	

COMPONENT OR  
COIL)).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.

1

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### Search Results - Record(s) 1 through 20 of 20 returned.

1. Document ID: US 20030028095 A1

Using default format because multiple data bases are involved.

L53: Entry 1 of 20

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030028095

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030028095 A1

TITLE: Magnetic resonance imaging probe

PUBLICATION-DATE: February 6, 2003

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tulley, Steve	Columbia	MD	US	
Lardo, Albert C.	Baldwin	MD	US	
Karmarkar, Parag	Elliott City	MD	US	
McVeigh, Elliot	Phoenix	MD	US	
Halperin, Henry R.	Baltimore	MD	US	
McNamara, Christine Enger	Chelmsford	MA	US	
<u>Bottomley, Paul A.</u>	Columbia	MD	US	
Atalar, Ergin	Columbia	MD	US	
Yang, Xiaoming	Baltimore	MD	US	

US-CL-CURRENT: 600/422

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMI](#) | [Drawn D](#)

2. Document ID: US 20020045816 A1

L53: Entry 2 of 20

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020045816

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020045816 A1

TITLE: Apparatus, systems, and methods for in vivo magnetic resonance imaging

PUBLICATION-DATE: April 18, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Atalar, Ergin	Columbia	MD	US	
<u>Bottomley, Paul A.</u>	Columbia	MD	US	
Karmarkar, Parag	Elliott City	MD	US	
Lardo, Albert C.	Baldwin	MD	US	
Zerhouni, Elias	Pasadena	MD	US	

US-CL-CURRENT: 600/423; 324/318

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#) | [D](#) 3. Document ID: US 6675033 B1

L53: Entry 3 of 20

File: USPT

Jan 6, 2004

US-PAT-NO: 6675033

DOCUMENT-IDENTIFIER: US 6675033 B1

TITLE: Magnetic resonance imaging guidewire probe

DATE-ISSUED: January 6, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lardo; Albert C.	Baldwin	MD		
Yang; Xiaoming	Baltimore	MD		
Atalar; Ergin	Columbia	MD		
Karmarkar; Parag	Elliott City	MD		
McVeigh; Elliott R.	Potomac	MD		
Halperin; Henry R.	Baltimore	MD		
McNamara; Christine Enger	Chelmsford	MA		
<u>Bottomley; Paul A.</u>	Columbia	MD		

US-CL-CURRENT: 600/410; 324/300, 324/302, 324/309, 600/417, 600/423

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#) | [D](#) 4. Document ID: US 6628980 B2

L53: Entry 4 of 20

File: USPT

Sep 30, 2003

US-PAT-NO: 6628980

DOCUMENT-IDENTIFIER: US 6628980 B2

TITLE: Apparatus, systems, and methods for in vivo magnetic resonance imaging

DATE-ISSUED: September 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atalar; Ergin	Columbia	MD		
<u>Bottomley; Paul A.</u>	Columbia	MD		
Karmarkar; Parag	Elliott City	MD		
Lardo; Albert C.	Baldwin	MD		
Zerhouni; Elias	Pasadena	MD		

US-CL-CURRENT: 600/423; 324/318

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINC](#) | [Drawings](#)

## □ 5. Document ID: US 6549800 B1

L53: Entry 5 of 20

File: USPT

Apr 15, 2003

US-PAT-NO: 6549800

DOCUMENT-IDENTIFIER: US 6549800 B1

TITLE: Methods for in vivo magnetic resonance imaging

DATE-ISSUED: April 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atalar; Ergin	Columbia	MD		
<u>Bottomley; Paul A.</u>	Columbia	MD		
Zerhouin; Elias	Pasadena	MD		
Halperin; Henry	Baltimore	MD		
McVeigh; Elliot	Potomac	MD		
Lardo; Albert C.	Lutherville	MD		

US-CL-CURRENT: 600/423; 324/244, 324/256, 324/257, 324/260, 324/301, 600/407, 600/410, 600/415, 600/417, 600/424, 606/130

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINC](#) | [Drawings](#)

## □ 6. Document ID: US 4973908 A

L53: Entry 6 of 20

File: USPT

Nov 27, 1990

US-PAT-NO: 4973908

DOCUMENT-IDENTIFIER: US 4973908 A

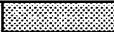
TITLE: NMR probe with multiple isolated coplanar surface coils

DATE-ISSUED: November 27, 1990

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Bottomley</u> ; Paul A.	Clifton Park	NY		
Hardy; Christopher J.	Schenectady	NY		

US-CL-CURRENT: 324/318

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>			<a href="#">Claims</a>	<a href="#">DOC</a>	<a href="#">Draw</a>	<a href="#">Des</a>
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**□ 7. Document ID: US 4885539 A**

L53: Entry 7 of 20

File: USPT

Dec 5, 1989

US-PAT-NO: 4885539

DOCUMENT-IDENTIFIER: US 4885539 A

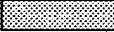
TITLE: Volume NMR coil for optimum signal-to-noise ratio

DATE-ISSUED: December 5, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roemer; Peter B.	Schenectady	NY		
<u>Bottomley</u> ; Paul A.	Clifton Park	NY		
Edelstein; William A.	Schenectady	NY		

US-CL-CURRENT: 324/318; 324/322

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>			<a href="#">Claims</a>	<a href="#">DOC</a>	<a href="#">Draw</a>	<a href="#">Des</a>
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**□ 8. Document ID: US 4881032 A**

L53: Entry 8 of 20

File: USPT

Nov 14, 1989

US-PAT-NO: 4881032

DOCUMENT-IDENTIFIER: US 4881032 A

TITLE: Method of, and apparatus for, NMR spectroscopic metabolite imaging and quantification

DATE-ISSUED: November 14, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Bottomley</u> ; Paul A.	Clifton Park	NY		
Roemer; Peter B.	Schenectady	NY		
Edelstein; William A.	Schenectady	NY		
Mueller; Otward M.	Ballston Lake	NY		

US-CL-CURRENT: 324/309; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KINIC	Drawn D
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9. Document ID: US 4689563 A

L53: Entry 9 of 20

File: USPT

Aug 25, 1987

US-PAT-NO: 4689563

DOCUMENT-IDENTIFIER: US 4689563 A

TITLE: High-field nuclear magnetic resonance imaging/spectroscopy system

DATE-ISSUED: August 25, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bottomley; Paul A.	Clifton Park	NY		
Edelstein; William A.	Schenectady	NY		
Hart, Jr.; Howard R.	Schenectady	NY		
Schenck; John F.	Schenectady	NY		
Redington; Rowland W.	Schenectady	NY		
Leue; William M.	Albany	NY		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KINIC	Drawn D
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10. Document ID: US 4682106 A

L53: Entry 10 of 20

File: USPT

Jul 21, 1987

US-PAT-NO: 4682106

DOCUMENT-IDENTIFIER: US 4682106 A

TITLE: Methods of, and apparatus for, proton decoupling in nuclear magnetic resonance spectroscopy

DATE-ISSUED: July 21, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vatis; Dimitrios	Schenectady	NY		
Bottomley; Paul A.	Clifton Park	NY		
Foster; Thomas H.	Schenectady	NY		

US-CL-CURRENT: 324/307; 324/311

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KINIC	Drawn D
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## □ 11. Document ID: US 4647858 A

L53: Entry 11 of 20

File: USPT

Mar 3, 1987

US-PAT-NO: 4647858

DOCUMENT-IDENTIFIER: US 4647858 A

TITLE: Methods for overcoming transient magnetic field inhomogeneity in nuclear magnetic resonance imaging

DATE-ISSUED: March 3, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Bottomley</u> ; Paul A.	Clifton Park	NY		

US-CL-CURRENT: 324/320; 324/322, 505/844

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	DOC	Drawings
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## □ 12. Document ID: US 4636730 A

L53: Entry 12 of 20

File: USPT

Jan 13, 1987

US-PAT-NO: 4636730

DOCUMENT-IDENTIFIER: US 4636730 A

TITLE: NMR spectroscopy body probes with at least one surface coil

DATE-ISSUED: January 13, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Bottomley</u> ; Paul A.	Clifton Park	NY		

US-CL-CURRENT: 324/322; 505/844

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	DOC	Drawings
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## □ 13. Document ID: US 4629988 A

L53: Entry 13 of 20

File: USPT

Dec 16, 1986

US-PAT-NO: 4629988

DOCUMENT-IDENTIFIER: US 4629988 A

TITLE: Method of imaging by depth-resolved surface coil spectroscopy

DATE-ISSUED: December 16, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Bottomley; Paul A.</u>	Clifton Park	NY		

US-CL-CURRENT: 324/309; 324/322

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>			<a href="#">Claims</a>	<a href="#">RWC</a>	<a href="#">Draw</a>
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 **14. Document ID: JP 03103783 A**

L53: Entry 14 of 20

File: JPAB

Apr 30, 1991

PUB-NO: JP403103783A

DOCUMENT-IDENTIFIER: JP 03103783 A

TITLE: NMR PROBE HAVING SURFACE COILS OF MANY INSULATED AND SEPARATED COMMON PLANES

PUBN-DATE: April 30, 1991

## INVENTOR-INFORMATION:

NAME	COUNTRY
BOTTOMLEY, PAUL A	
HARDY, CHRISTOPHER J	

INT-CL (IPC): G01R 33/32; A61B 5/055; G01R 33/34

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>			<a href="#">Claims</a>	<a href="#">RWC</a>	<a href="#">Draw</a>
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 **15. Document ID: WO 3058283 A1**

L53: Entry 15 of 20

File: EPAB

Jul 17, 2003

PUB-NO: WO003058283A1

DOCUMENT-IDENTIFIER: WO 3058283 A1

TITLE: MRI TUNABLE ANTENNA AND SYSTEM

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>			<a href="#">Claims</a>	<a href="#">RWC</a>	<a href="#">Draw</a>
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 **16. Document ID: EP 404592 A1**

L53: Entry 16 of 20

File: EPAB

Dec 27, 1990

PUB-NO: EP000404592A1

DOCUMENT-IDENTIFIER: EP 404592 A1

TITLE: NMR probe with multiple isolated coplanar surface coils.

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>			<a href="#">Claims</a>	<a href="#">RWC</a>	<a href="#">Draw</a>
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 **17. Document ID: EP 365352 A2**

L53: Entry 17 of 20

File: EPAB

Apr 25, 1990

PUB-NO: EP000365352A2

DOCUMENT-IDENTIFIER: EP 365352 A2

TITLE: Method of, and apparatus for, NMR spectroscopic metabolite imaging and quantification.[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KJC](#) | [Draw](#) | [De](#)**□ 18. Document ID: AU 2002353183 A1, WO 2003058283 A1**

L53: Entry 18 of 20

File: DWPI

Jul 24, 2003

DERWENT-ACC-NO: 2003-559483

DERWENT-WEEK: 200421

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TITLE: Near field electromagnetic signals detecting device for nuclear magnetic resonance (NMR) imaging, comprises strip array antenna with conductors and reactive tuning components[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KJC](#) | [Draw](#) | [De](#)**□ 19. Document ID: EP 171741 A, DE 3583466 G, EP 171741 B, FI 8503029 A, FI 89212 B, IL 76017 A, KR 8904079 B, US 4636730 A**

L53: Entry 19 of 20

File: DWPI

Feb 19, 1986

DERWENT-ACC-NO: 1986-049632

DERWENT-WEEK: 198608

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TITLE: NMR spectroscopy body probe with surface coil - has coils, separately tunable to different resonance frequency, each on own substrate, stacked adjacent one another[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KJC](#) | [Draw](#) | [De](#)**□ 20. Document ID: EP 167127 A, DE 3575605 G, EP 167127 B, FI 8502048 A, FI 89211 B, IL 75501 A, KR 9002468 B, US 4629988 A**

L53: Entry 20 of 20

File: DWPI

Jan 8, 1986

DERWENT-ACC-NO: 1986-009110

DERWENT-WEEK: 198602

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TITLE: NMR depth resolved surface coil spectroscopy method - using selective excitation in gradient magnetic field to eliminate surface contamination of chemical shift spectra

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document](#) | [Claims](#) | [KMC](#) | [Draw](#)

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Term	Documents
SEGMENT	509812
SEGMENTS	443104
ELEMENT	3161199
ELEMENTS	2894411
COMPONENT	2372377
COMPONENTS	2696608
COIL	1179889
COILS	390874
ANTENN\$3	0
ANTENN	2035
(L52 AND (ANTENN\$3 WITH (SEGMENT OR ELEMENT OR COMPONENT OR COIL))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	20

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[Generate OACs](#)

### Search Results - Record(s) 1 through 11 of 11 returned.

#### 1. Document ID: US 20030201775 A1

Using default format because multiple data bases are involved.

L57: Entry 1 of 11

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030201775

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030201775 A1

TITLE: Degenerate birdcage resonator for magnetic resonance imaging

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Boskamp, Eddy Benjamin</u>	Menomonee Falls	WI	US	

US-CL-CURRENT: 324/318; 324/309

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KING](#) | [Drawings](#)

#### 2. Document ID: US 20030201774 A1

L57: Entry 2 of 11

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030201774

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030201774 A1

TITLE: Multiple channel, cardiac array for sensitivity encoding in magnetic resonance imaging

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Klinge, Julia Helena Anna</u>	Milwaukee	WI	US	
<u>Boskamp, Eddy Benjamin</u>	Menomonee Falls	WI	US	
<u>Davis, Steven Christopher</u>	Oconomowoc	WI	US	
<u>Gangakhedkar, Deependra D.</u>	Waukesha	WI	US	
<u>Lindsay, Scott Allen</u>	Dousman	WI	US	

US-CL-CURRENT: 324/318; 324/309[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIN/C](#) | [Draw/De](#)**3. Document ID: US 20030184294 A1**

L57: Entry 3 of 11

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030184294

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030184294 A1

TITLE: Multiple channel, neuro vascular array coil for magnetic resonance imaging

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Boskamp</u> , Eddy Benjamin	Menomonee	WI	US	
Lorbiecki, John E.	Hubertus	WI	US	
Blawat, LeRoy Raymond II	Milwaukee	WI	US	

US-CL-CURRENT: 324/318; 324/309, 600/411[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIN/C](#) | [Draw/De](#)**4. Document ID: US 20030184293 A1**

L57: Entry 4 of 11

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030184293

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030184293 A1

TITLE: Multiple channel, microstrip transceiver volume array for magnetic resonance imaging

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Boskamp</u> , Eddy Benjamin	Menomonee Falls	WI	US	
Lee, Ray F.	Clifton Park	NY	US	

US-CL-CURRENT: 324/318; 324/309, 324/322[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIN/C](#) | [Draw/De](#)**5. Document ID: US 6534983 B1**

L57: Entry 5 of 11

File: USPT

Mar 18, 2003

US-PAT-NO: 6534983  
DOCUMENT-IDENTIFIER: US 6534983 B1

TITLE: Multi-channel phased array coils having minimum mutual inductance for  
magnetic resonance systems

DATE-ISSUED: March 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Boskamp</u> ; Eddy B.	Menomonee Falls	WI		
Li; Shizhe	Brookfield	WI		
Cline; Harvey E.	Schenectady	NY		
Giaquinto; Randy O.	Burnt Hills	NY		

US-CL-CURRENT: 324/318; 324/322

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIND](#) | [Drawn](#)

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6. Document ID: US 6437567 B1

L57: Entry 6 of 11

File: USPT

Aug 20, 2002

US-PAT-NO: 6437567  
DOCUMENT-IDENTIFIER: US 6437567 B1

TITLE: Radio frequency coil for open magnetic resonance imaging system

DATE-ISSUED: August 20, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Schenck</u> ; John Frederick	Clifton Park	NY		
<u>Watkins</u> ; Ronald Dean	Niskayuna	NY		
<u>Edelstein</u> ; William Alan	Schenectady	NY		
<u>El-Hamamsy</u> ; Sayed-Amr	Niskayuna	NY		
<u>Boskamp</u> ; Eddy B.	Menomonee Falls	WI		
<u>Giaquinto</u> ; Randy Otto John	Burnt Hills	NY		
<u>Mallick</u> ; John Andrew	Scotia	NY		

US-CL-CURRENT: 324/318; 600/422

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIND](#) | [Drawn](#)

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7. Document ID: US 5696449 A

L57: Entry 7 of 11

File: USPT

Dec 9, 1997

US-PAT-NO: 5696449  
DOCUMENT-IDENTIFIER: US 5696449 A

TITLE: RF coil for open MR magnet

DATE-ISSUED: December 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Boskamp</u> ; Eddy B.	Menomonee Falls	WI		

US-CL-CURRENT: 324/318; 600/422

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINIC](#) | [Drawn](#) | [Des](#)

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8. Document ID: US 5594337 A

L57: Entry 8 of 11

File: USPT

Jan 14, 1997

US-PAT-NO: 5594337  
DOCUMENT-IDENTIFIER: US 5594337 A

TITLE: Local coil for magnetic resonance angiography

DATE-ISSUED: January 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Boskamp</u> ; Eddy B.	Menomonee Falls	WI		

US-CL-CURRENT: 324/318; 324/322

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINIC](#) | [Drawn](#) | [Des](#)

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9. Document ID: US 5370118 A

L57: Entry 9 of 11

File: USPT

Dec 6, 1994

US-PAT-NO: 5370118  
DOCUMENT-IDENTIFIER: US 5370118 A

TITLE: Opposed loop-pair quadrature NMR coil

DATE-ISSUED: December 6, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Vij</u> ; Kamal	New Berlin	WI		
<u>Boskamp</u> ; Eddy B.	Menomonee Falls	WI		

US-CL-CURRENT: 600/422; 324/311, 324/318, 324/322 Full  Title  Citation  Front  Review  Classification  Date  Reference     Claims  KIN/C  Drawn/Ds**□ 10. Document ID: US 5361765 A**

L57: Entry 10 of 11

File: USPT

Nov 8, 1994

US-PAT-NO: 5361765

DOCUMENT-IDENTIFIER: US 5361765 A

TITLE: Two-part quadrature NMR coil

DATE-ISSUED: November 8, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Herlihy, David J.	New Berlin	WI		
<u>Boskamp, Eddy B.</u>	Menomonee Falls	WI		

US-CL-CURRENT: 600/422; 324/318, 324/322 Full  Title  Citation  Front  Review  Classification  Date  Reference     Claims  KIN/C  Drawn/Ds**□ 11. Document ID: US 5256971 A**

L57: Entry 11 of 11

File: USPT

Oct 26, 1993

US-PAT-NO: 5256971

DOCUMENT-IDENTIFIER: US 5256971 A

TITLE: Multiple loop coil with improved decoupling

DATE-ISSUED: October 26, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Boskamp, Eddy B.</u>	Menomonee Falls	WI		

US-CL-CURRENT: 324/318; 600/422 Full  Title  Citation  Front  Review  Classification  Date  Reference     Claims  KIN/C  Drawn/Ds     

Term	Documents
SEGMENT	509812

SEGMENTS	443104
ELEMENT	3161199
ELEMENTS	2894411
COMPONENT	2372377
COMPONENTS	2696608
COIL	1179889
COILS	390874
ANTENN\$3	0
ANTENN	2035
ANTENNA	286610
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**Search Results - Record(s) 1 through 1 of 1 returned.**

1. Document ID: US 5557247 A

Using default format because multiple data bases are involved.

L63: Entry 1 of 1

File: USPT

Sep 17, 1996

US-PAT-NO: 5557247

DOCUMENT-IDENTIFIER: US 5557247 A

\*\* See image for Certificate of Correction \*\*

TITLE: Radio frequency volume coils for imaging and spectroscopy

DATE-ISSUED: September 17, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Vaughn, Jr.</u> ; John T.	Birmingham	AL		

US-CL-CURRENT: 333/219; 324/318, 324/322, 333/222, 333/227

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Term	Documents
VAUGHN	10665
VAUGHNS	10
JR	1029190
JRS	403
MAGNETIC	1402150
MAGNETICS	12010
RESONANCE	273296
RESONANCES	15837
MRI	23058
MRIS	317
NMR	133054
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MRI OR NMR))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

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